Performance Data Sheet

AVC5546EXN

General Information

Model	AVC5546EXN	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	14200	13200					
	Watts	1760	1800					
	Amps	8.43	7.78					
	Lb/h	184	175					
-10	Btu/h	15600	14600	12900				
	Watts	1960	2020	2030				
	Amps	9.44	8.91	8.68				
	Lb/h	201	193	177				
-5	Btu/h	17500	16500	14800	12600			
	Watts	2140	2230	2270	2260			
	Amps	10.3	9.93	9.81	9.82			
	Lb/h	225	218	203	180			
0	Btu/h	20100	18900	17200	15000	12400		
	Watts	2290	2410	2490	2520	2490		
	Amps	11.1	10.8	10.9	11.0	11.0		
	Lb/h	256	249	235	213	186		
5	Btu/h	23200	21900	20100	17800	15200		
	Watts	2430	2580	2690	2750	2760		
	Amps	11.8	11.7	11.8	12.0	12.2		
	Lb/h	293	287	273	252	225		
10	Btu/h	26900	25500	23400	21000	18300	15500	12700
	Watts	2550	2730	2870	2970	3010	3000	2930
	Amps	12.3	12.4	12.6	13.0	13.3	13.4	13.1
	Lb/h	338	331	316	296	269	239	207
15	Btu/h	31200	29500	27300	24700	21800	18800	16000
	Watts	2640	2860	3030	3160	3250	3280	3260
	Amps	12.8	13.0	13.4	13.9	14.4	14.6	14.3
	Lb/h	389	381	366	345	319	289	257
20	Btu/h	36000	34100	31600	28800	25700	22600	19500
	Watts	2720	2960	3170	3340	3470	3540	3560
	Amps	13.1	13.5	14.1	14.8	15.3	15.7	15.6
	Lb/h	447	438	421	400	373	343	311

25	Btu/h	41500	39200	36500	33300	30000	26600	23400
	Watts	2780	3050	3300	3510	3670	3790	3850
	Amps	13.3	13.9	14.7	15.5	16.2	16.7	16.7
	Lb/h	511	500	482	459	432	402	370
30	Btu/h	47500	44900	41800	38300	34700	31000	27500
	Watts	2810	3120	3410	3650	3860	4020	4120
	Amps	13.4	14.2	15.2	16.2	17.1	17.7	17.9
	Lb/h	581	568	549	525	496	465	432
35	Btu/h	54100	51100	47500	43700	39700	35700	31900
	Watts	2830	3180	3490	3780	4020	4230	4380
	Amps	13.4	14.4	15.6	16.8	17.9	18.7	19.0
	Lb/h	658	642	621	595	565	532	498
40	Btu/h	61300	57800	53800	49500	45200	40800	36600
	Watts	2830	3210	3560	3890	4170	4420	4620
	Amps	13.3	14.5	15.9	17.3	18.6	19.6	20.0
	Lb/h	740	722	698	670	638	603	568
45	Btu/h	69000	65000	60500	55800	51000	46200	41600
	Watts	2800	3220	3610	3980	4310	4600	4850
	Amps	13.1	14.5	16.2	17.8	19.3	20.4	21.1
	Lb/h	829	808	781	750	715	679	642
50	Btu/h	77300	72700	67800	62500	57200	51900	46900
	Watts	2760	3210	3650	4050	4420	4760	5060
	Amps	12.7	14.5	16.3	18.2	19.9	21.2	22.1
	Lb/h	924	899	869	834	797	758	719
55	Btu/h	86200	81000	75400	69600	63800	58000	52500
	Watts	2700	3190	3660	4110	4520	4910	5250
	Amps	12.3	14.3	16.4	18.5	20.4	22.0	23.0
	Lb/h	1020	996	962	924	883	842	800

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.368167E+04	3.629486E+02	4.222601E+01	-1.319548E+02
C2	8.980182E+02	-1.371321E+00	-1.728045E-01	8.688060E+00
C3	1.093903E+03	2.861134E+01	-9.021251E-01	1.117516E+01
C4	1.923932E+01	-5.072023E-01	-4.149593E-03	1.997351E-01
C5	-5.900347E+00	1.947332E-01	4.962115E-03	-4.551063E-02
C6	-1.059743E+01	1.376474E-02	8.543858E-03	-9.522836E-02
C7	-1.584769E-03	2.584042E-05	1.914693E-06	-1.149976E-04
C8	-9.491867E-02	1.337284E-03	2.275356E-05	-8.016745E-04
C9	2.199389E-02	2.362899E-03	-1.251136E-05	2.854267E-04
C10	2.745693E-02	-8.724720E-04	-2.659975E-05	2.014462E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature